KINGSVILLE DOME URANIUM MINE AREA DATA AND ANALYSIS (A Work in Progress)

Apr. 11, 2013 QUESTIONS



EPA, Region 6 Dallas, Texas

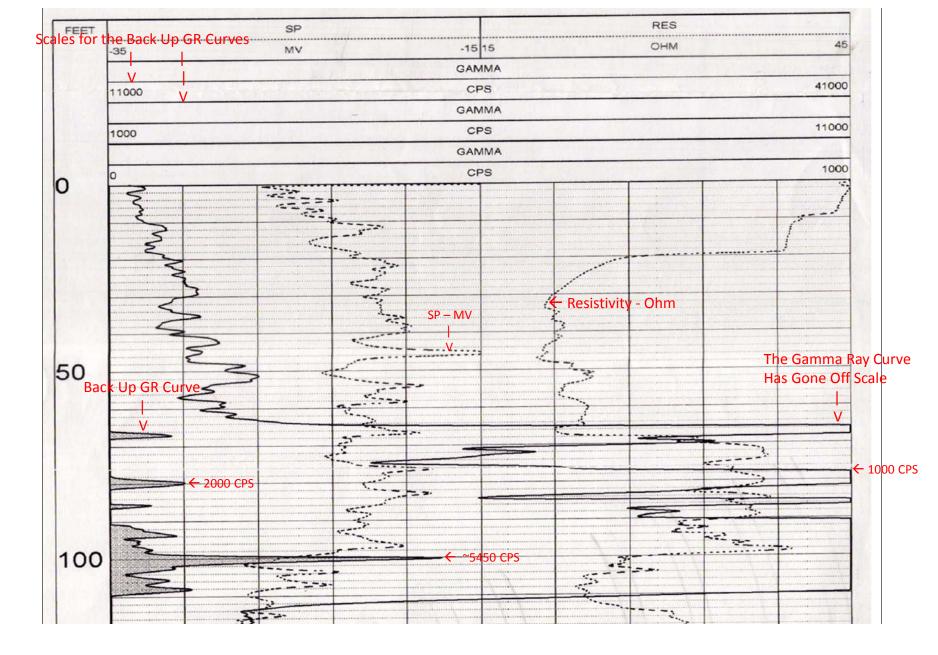
José Eduardo Torres Petroleum Engineer Chemical Engineer

KVD Data Review - A Work in Progress

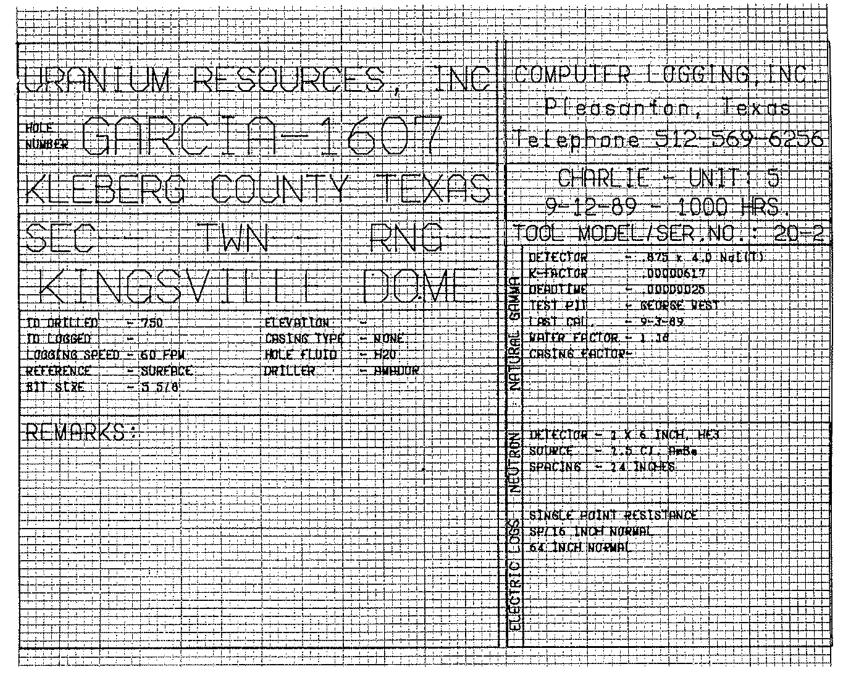
Questions on Log Scales and Nomenclature

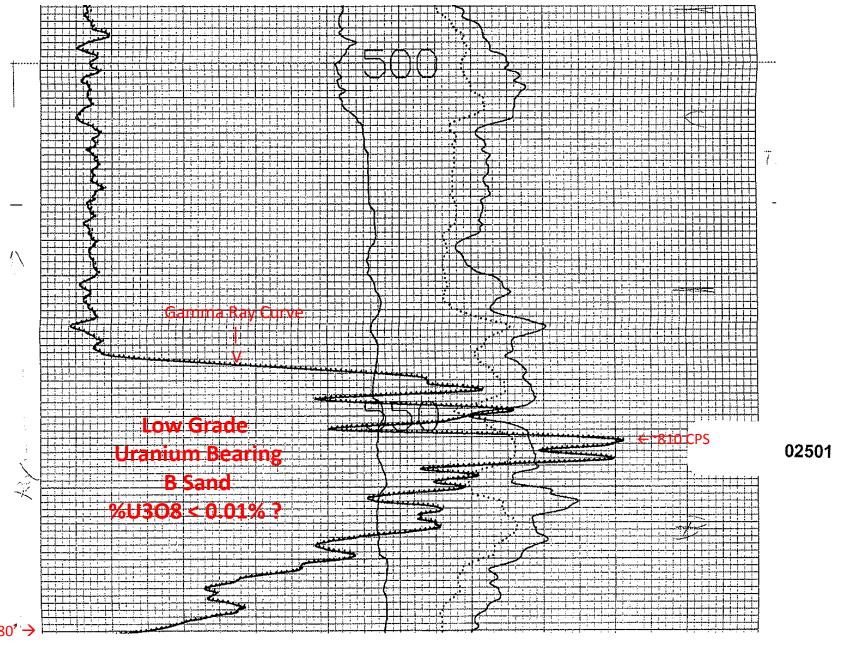


EPA, Region 6 Dallas, Texas

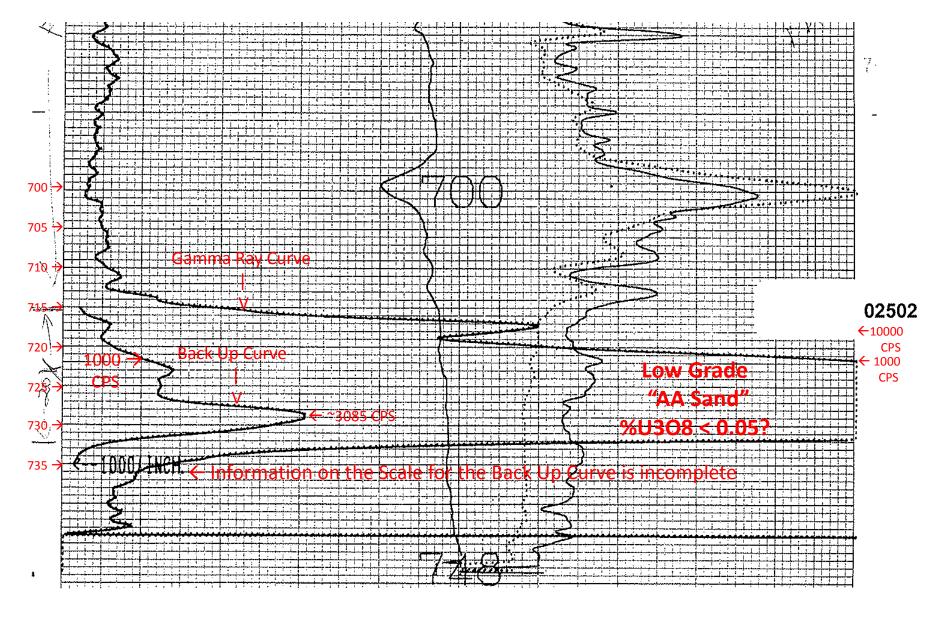


Sample Modern Log Showing Back Up Curve Scales for Gamma Ray Curve





KVD Exploratory Well Garcia 1607: At approximately 550 Ft North and East from W-20, just off CR 2130, Kleberg Co.



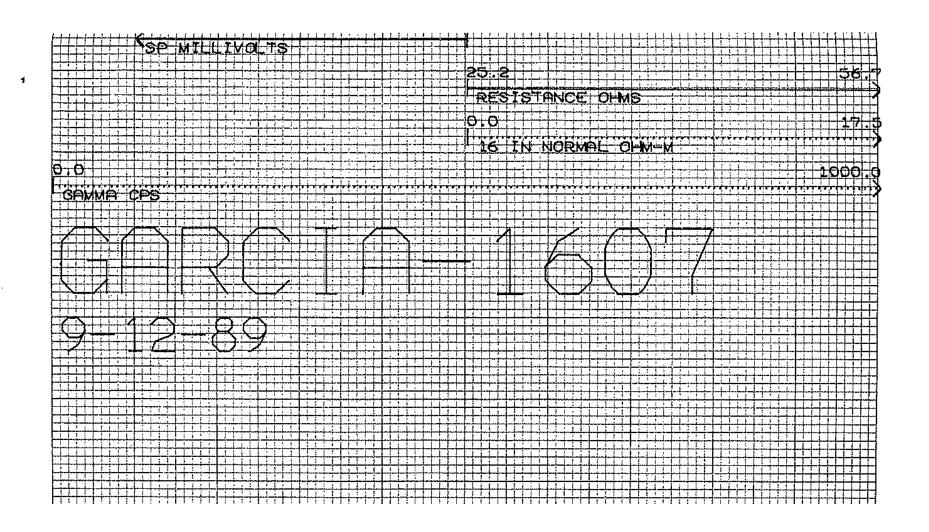
KVD Exploratory Well Garcia 1607: GR-SP-Res. Shown: the Low Grade Uranium Bearing "AA Sand"

(What is the meaning of the annotation "20X" seen posted at the 725 Ft level?, is it related to the GR Scale?) $_6$

KVD Exploratory Well Garcia 1607

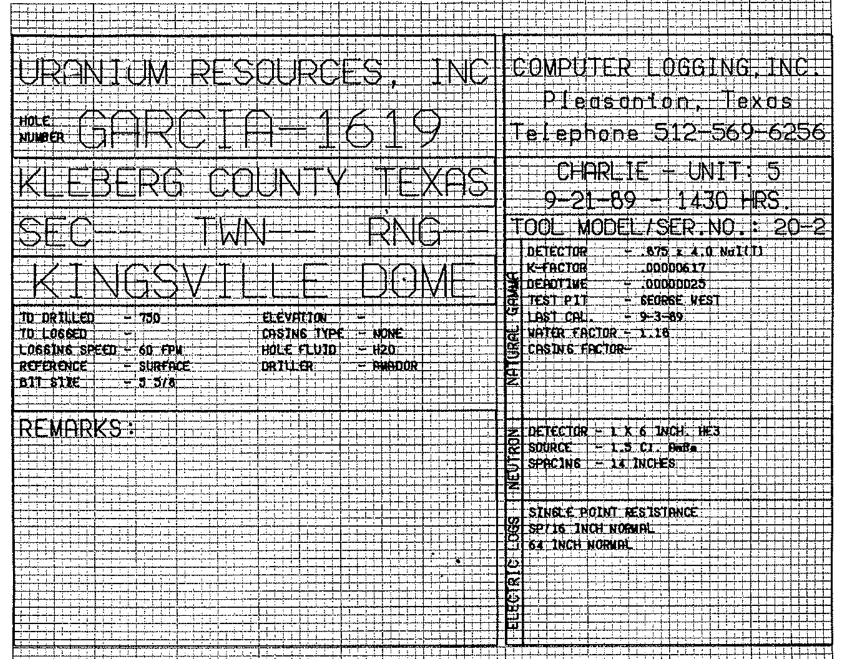
Uranium Assay for "AA Sand" Segment

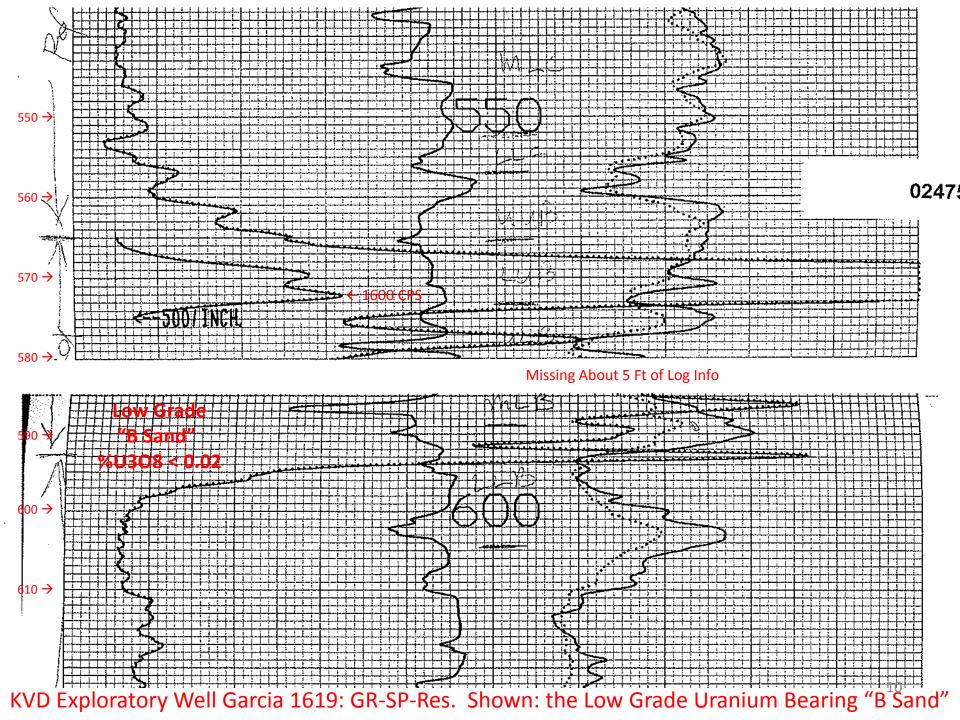
	GAMMA-HI		%U3O8		GAMMA-HI		%U3O8
DEPTH	CPS	GAMMA-HI	RADIOMETRI	DEPTH	CPS	GAMMA-HI	RADIOMETRI
	PROBE	CPS,	C GRADE PER		PROBE	CPS,	C GRADE PER
	COUNTS	CORRECTED	UNIT		COUNTS	CORRECTED	UNIT
715.00	200.00	200.01	0.0028	725.00	1250.00	1250.39	0.0177
715.50	250.00	250.02	0.0035	725.50	1200.00	1200.36	0.0170
716.00	300.00	300.02	0.0043	726.00	1250.00	1250.39	0.0177
716.50	450.00	450.05	0.0064	726.50	1275.00	1275.41	0.0181
717.00	580.00	580.08	0.0082	727.00	1550.00	1550.60	0.0220
717.50	590.00	590.09	0.0084	727.50	2200.00	2201.21	0.0312
718.00	550.00	550.08	0.0078	728.00	2700.00	2701.82	0.0383
718.50	500.00	500.06	0.0071	728.50	3085.00	3087.38	0.0438
719.00	500.00	500.06	0.0071	729.00	3085.00	3087.38	0.0438
719.50	540.00	540.07	0.0077	729.50	2900.00	2902.10	0.0412
720.00	610.00	610.09	0.0087	730.00	2640.00	2641.74	0.0375
720.50	700.00	700.12	0.0099	730.50	2300.00	2301.32	0.0327
721.00	880.00	880.19	0.0125	731.00	1900.00	1900.90	0.0270
721.50	1000.00	1000.25	0.0142	731.50	1200.00	1200.36	0.0170
722.00	1140.00	1140.32	0.0162	732.00	800.00	800.16	0.0114
722.50	1300.00	1300.42	0.0185	732.50	500.00	500.06	0.0071
723.00	1400.00	1400.49	0.0199	733.00	350.00	350.03	0.0050
723.50	1355.00	1355.46	0.0192	733.50	250.00	250.02	0.0035
724.00	1225.00	1225.38	0.0174	734.00	200.00	200.01	0.0028
724.50	1215.00	1215.37	0.0172	734.50	180.00	180.01	0.0026
725.00	1250.00	1250.39	0.0177	735.00	150.00	150.01	0.0021

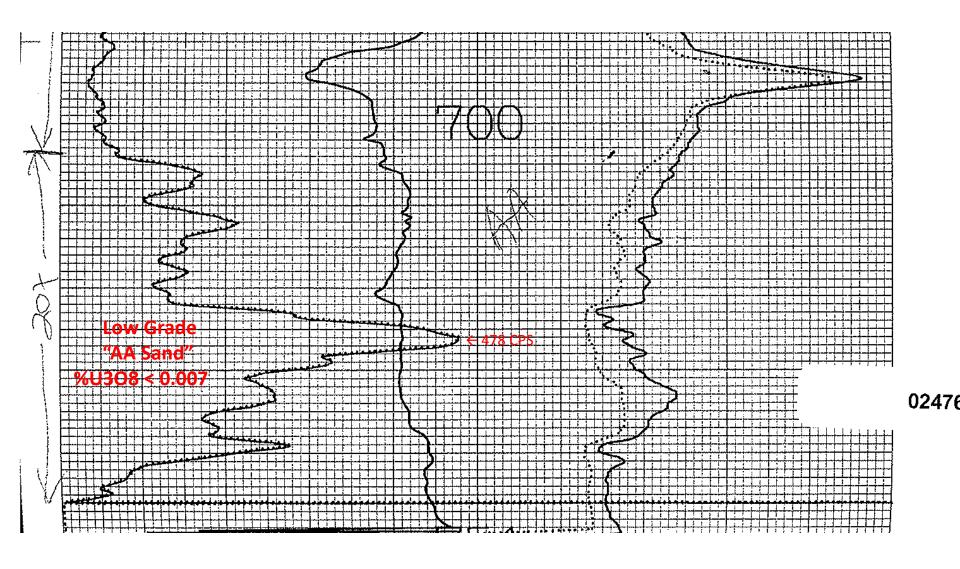


KVD Exploratory Well Garcia 1607. Well Log's Scales

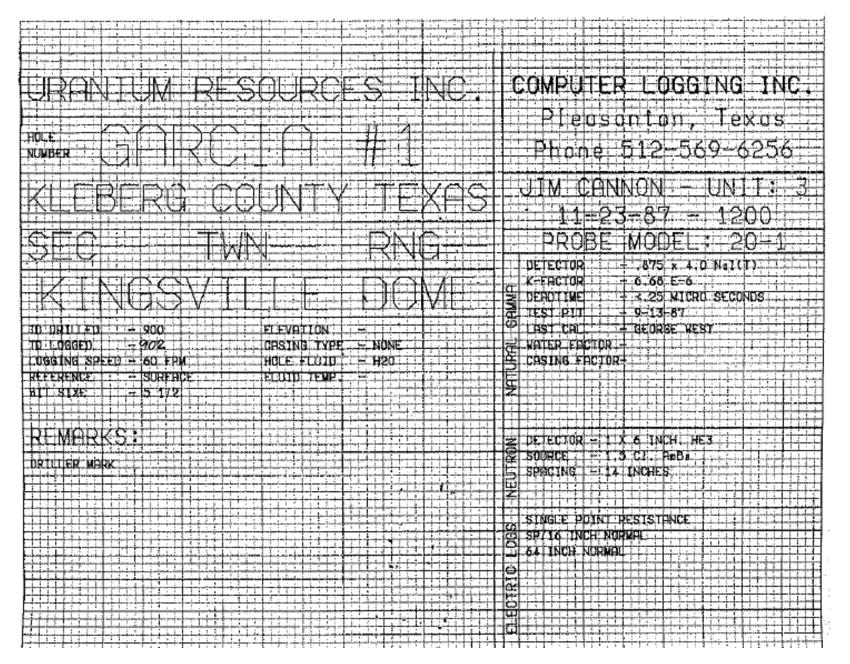
Unfortunately, this old type of log does not provide an explicit secondary scale for the Back Up portions of the GR curve along with the primary scale.

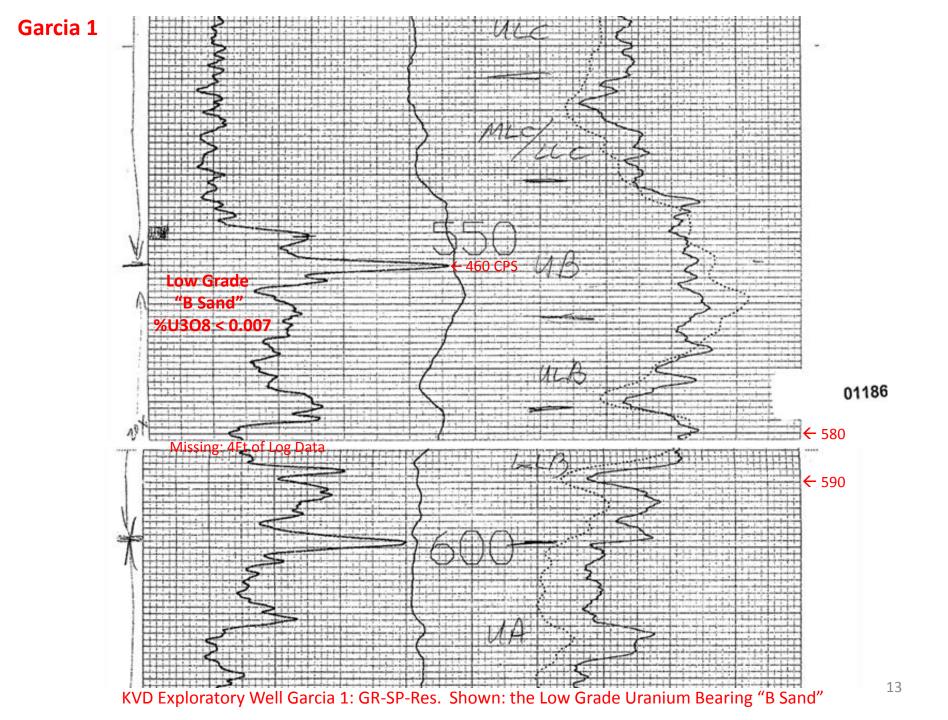






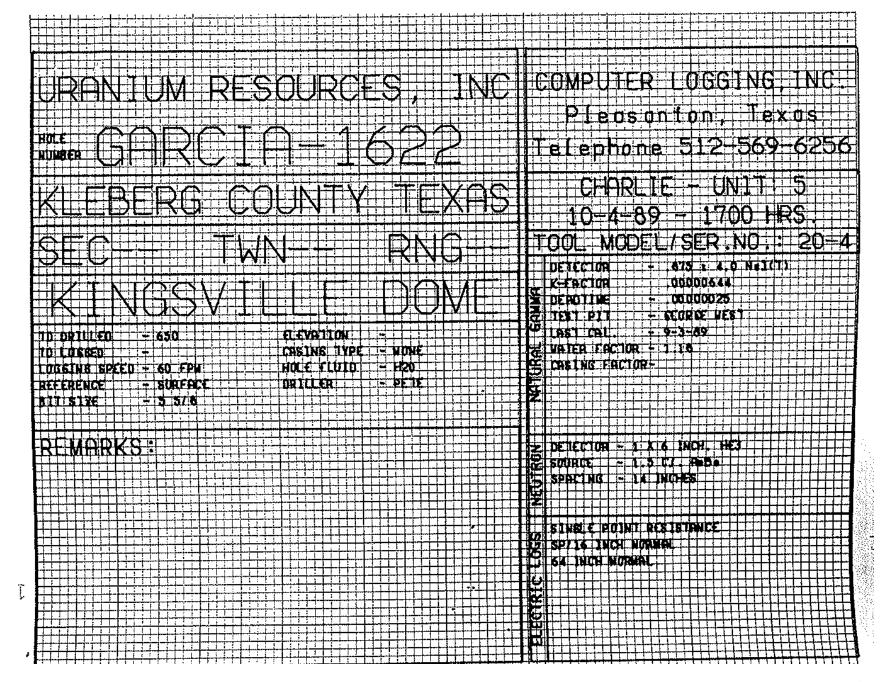
KVD Exploratory Well Garcia 1619: GR-SP-Res. Shown: the Low Grade Uranium Bearing "AA Sand"

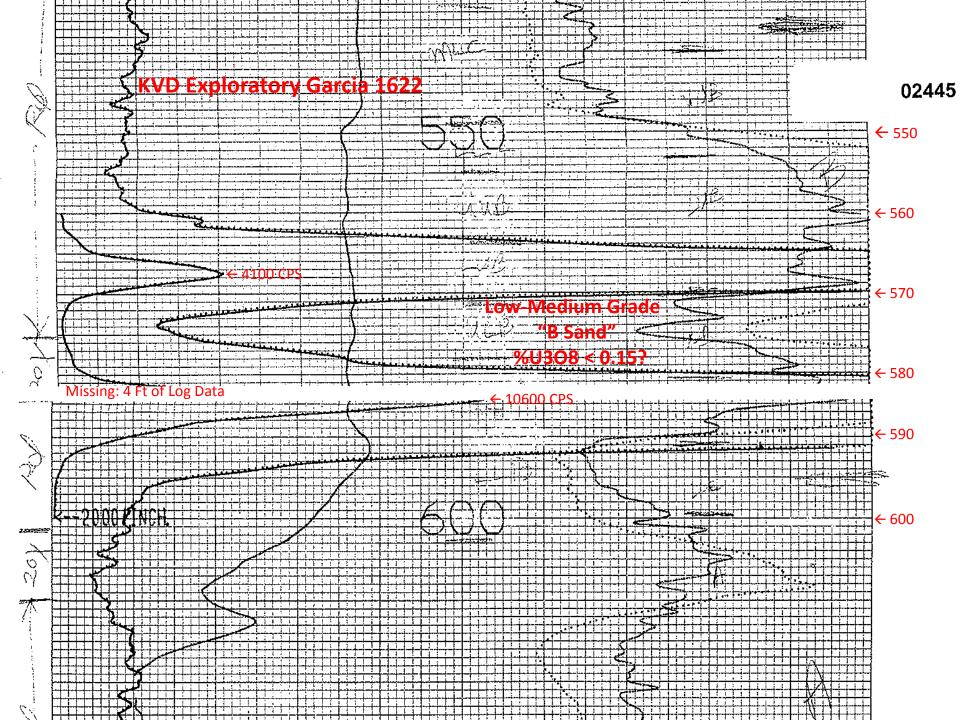




Garcia 1 01187

KVD Exploratory Well Garcia 1. About 800 Ft South and East of Garcia Hill W-20. "AA Sand" (nearly Uranium free?... no GR curve scales provided).

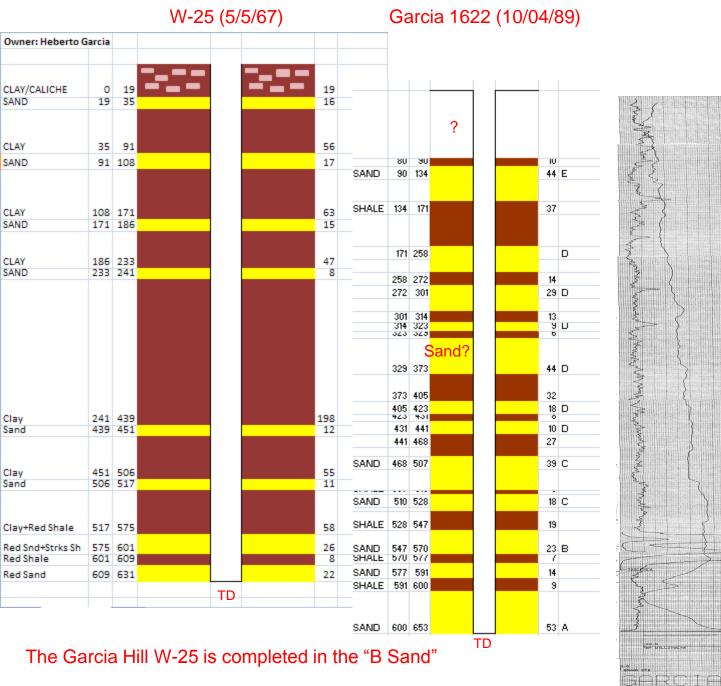




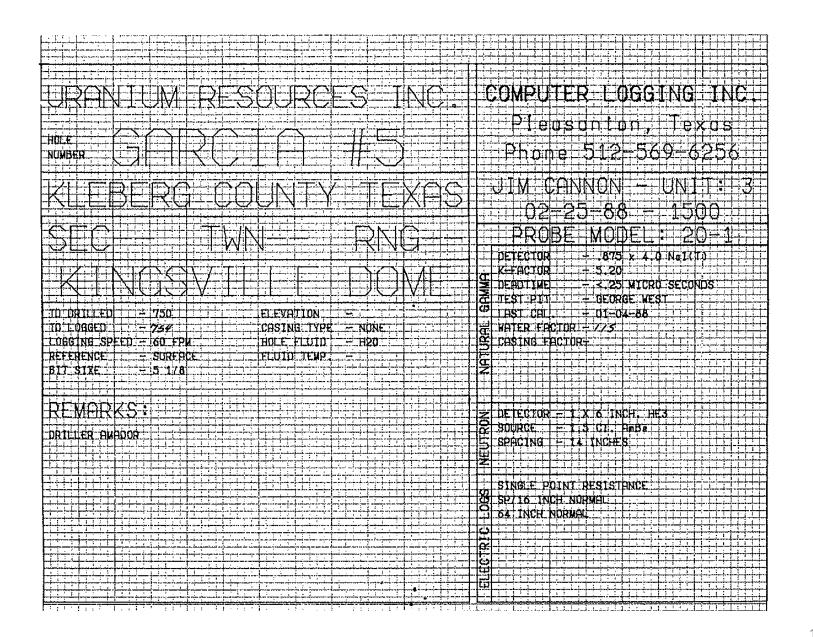
KVD Exploratory Well Garcia 1622

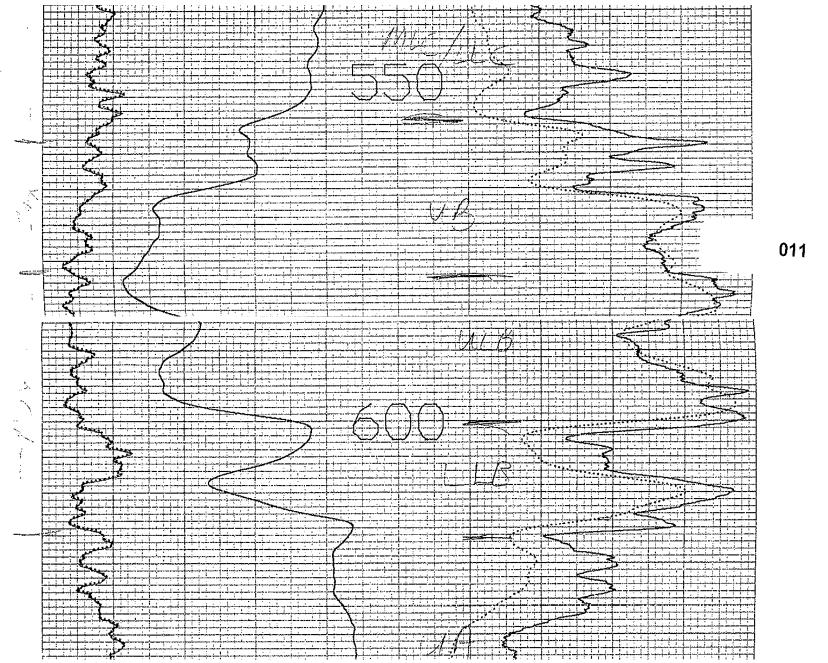
Uranium Assay for "B Sand" Segment

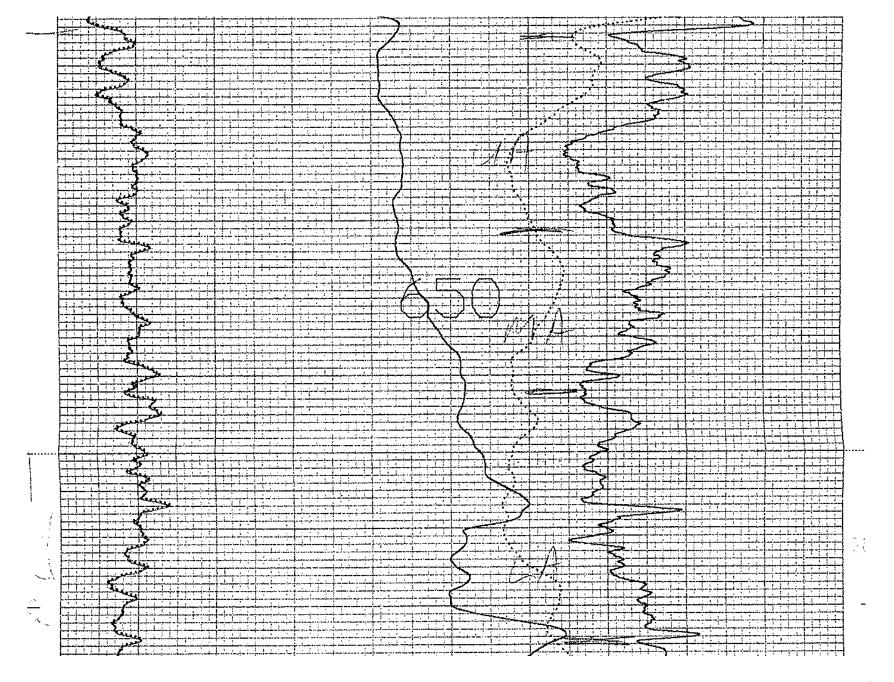
				HOLE	
DERTIL			%U3O8	AND	
DEPTH	GAMMA-HI	GAMMA-HI	RADIOMETRIC	WATER	STEEL CASING
	CPS PROBE	CPS,	GRADE PER	CORR.	CORRECTED
	COUNTS	CORRECTED	UNIT	GRADE	GRADE
565.00	1000.00	1000.25	0.0129	0.0148	0.0148
565.50	1600.00	1600.64	0.0206	0.0237	0.0237
566.00	2400.00	2401.44	0.0309	0.0355	0.0355
566.50	3400.00	3402.89	0.0438	0.0503	0.0503
567.00	3700.00	3703.43	0.0477	0.0548	0.0548
567.50	4100.00	4104.21	0.0529	0.0607	0.0607
568.00	3800.00	3803.61	0.0490	0.0563	0.0563
568.50	3100.00	3102.40	0.0400	0.0459	0.0459
569.00	2300.00	2301.32	0.0296	0.0340	0.0340
569.50	1500.00	1500.56	0.0193	0.0222	0.0222
570.00	1000.00	1000.25	0.0129	0.0148	0.0148
580.00	800.00	800.16	0.0103	0.0118	0.0118
580.50	1000.00	1000.25	0.0129	0.0148	0.0148
585.50	10600.00	10628.16	0.1369	0.1572	0.1572
586.00	10000.00	10025.06	0.1291	0.1483	0.1483
586.50	8500.00	8518.10	0.1097	0.1260	0.1260
587.00	7200.00	7212.98		0.1067	0.1067
587.50	5400.00	5407.30	0.0696	0.0800	0.0800
588.00	4100.00	4104.21	0.0529	0.0607	0.0607
588.50	3300.00	3302.72		0.0489	0.0489
589.00	2900.00	2902.10	0.0374	0.0429	0.0429
589.50	2400.00	2401.44	0.0309	0.0355	0.0355
590.00	1900.00	1900.90	0.0245	0.0281	0.0281
590.50	1500.00	1500.56	0.0193	0.0222	0.0222
591.00	1100.00	1100.30	0.0142	0.0163	0.0163

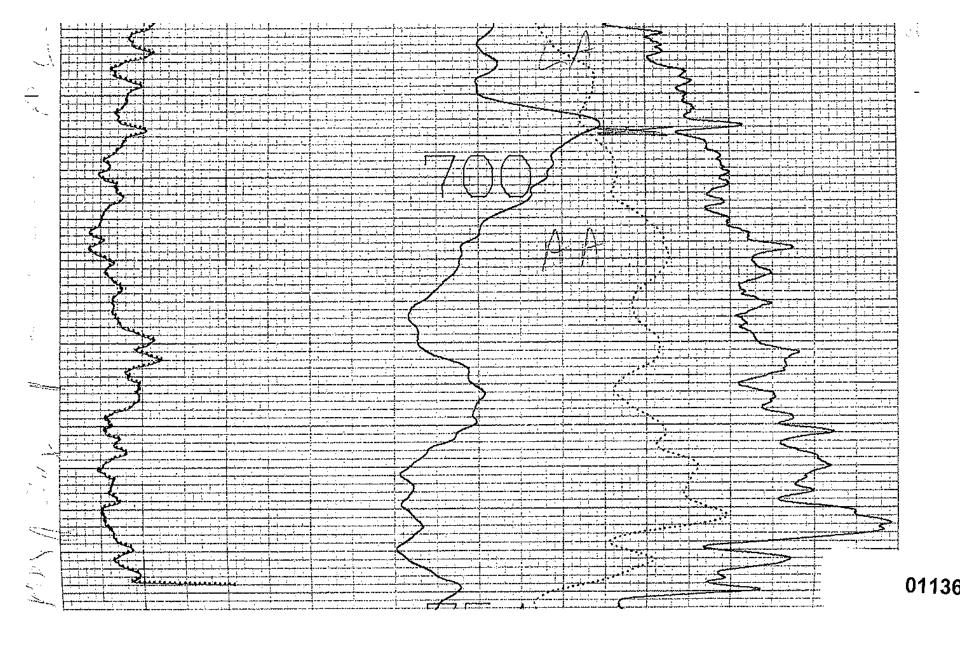


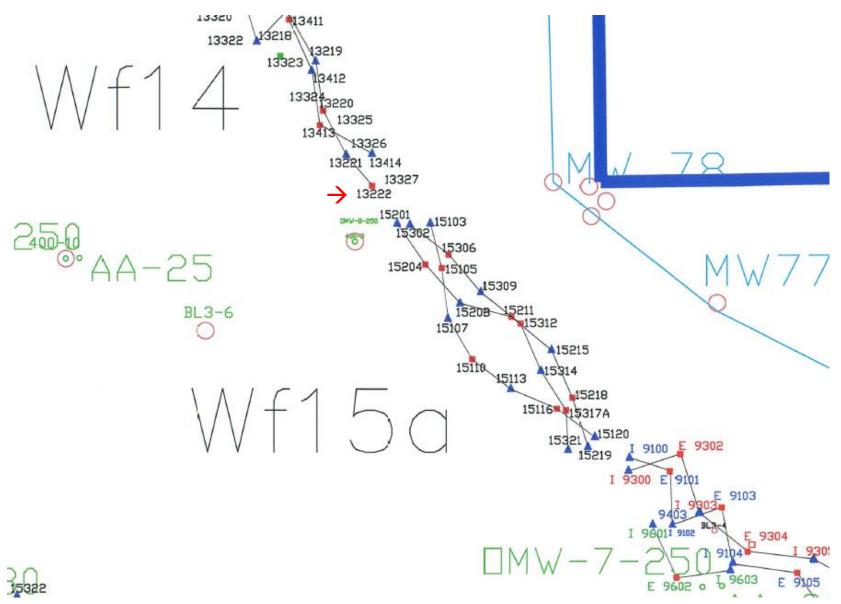
There is a 25 to 30 Ft difference in elevation between W-25 and Garcia 1622.





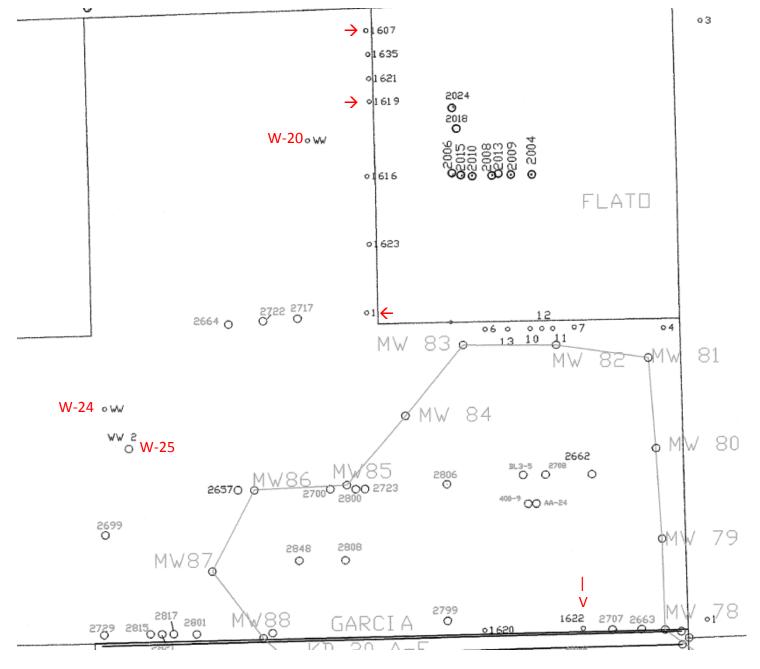






KVD PA-3 Segment. Was Exploratory Well Garcia 1622 Completed as a "B Sand" (?) Producer 13222?. Note that Injector 13326 is not connected to 13222 suggesting completion in different zones. Is there information documenting Which Sands were produced at PA-3?

1	SOAH Docket No. 582-05-1552						
2	TCEQ Docket Nos. 1997-1063-UIC and 2004-0746-UIC						
2 3 4							
4	≠						
5	Application of URI, Inc.	§	Before the State Office				
6	to TCEQ for Issuance of a Production	§					
7	Area Authorization for Production	§	of Administrative Hearings				
8	Area 3 Under Permit URO 2827	an an an an an an an an					
9		§					
10	and	§					
11		§					
12	Renewal of TCEQ Waste Disposal Well	§					
13	Permit Nos. WDW-247 and WDW-248	§					
14							
15	**************************************		7.603.77				
16	PREFILED	TESTI	MONY				
17		OE					
18 19	\mathbf{OF}						
20	ROBERT S. KIER, Ph.D.						
21	ROBERTS	o. KIEK	, ги.р.				
22							
23	Filed on Rehalf of South Te	was Om	noses Pollution (STOP)				
24	Filed on Behalf of South Texas Opposes Pollution (STOP) and Hermila Garcia						
2.		шпа Он					
	On P	age 9:					
	section. The ton and bottom of the	IOO foo	t overlying fresh water aquifer sand do				
	*						
	not match on the two cross-sections.	Neith	er the top nor bottom of the A & B				
	Sand, which comprise the production	ı zone.	match on the two cross-sections. The				
	The production	,	The state of the s				
	Only the A and B sands are to be mir	ned in F	PAA 3; thus, as indicated by TCEQ				



Shown KVD Exploratory Wells' Locations Relative to Garcia Hill W-20's Location